

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Patrick Gross

Group Art Unit: TBA

Serial No.: TBA

Examiner: TBA

Filed: October 19, 2004

For: Magnetic Resonance Imaging Receive Circuit

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313

Sir:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§1.56, 1.97 and 1.98. The items listed on Form PTO-1449, a copy of which is enclosed, are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

1.  For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, an English language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed.
  
2.  For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, a concise explanation of the relevance of that item is incorporated in the specification of the above-identified application.
  
3.  Any copy of the items listed on the enclosed copy of Form PTO-1449 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in various parent applications. A copy of each of the cited non-patent references is enclosed herewith.
  
4.  No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:  
 37 C.F.R. §1.97(b)(1), within three months of the filing date of a national application other than a CPA; or

- 37 C.F.R. §1.97(b)(2), within three months of the date of entry into the national stage as set forth in §1.491 in an international application; or
- 37 C.F.R. §1.97(b)(3), before the mailing date of a first Office action on the merits; or
- 37 C.F.R. §1.97(b)(4) before the mailing date of a first office action after the filing of an RCE under §1.114.

5.  No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a Notice of Allowance (where there has been no prior final action), and is accompanied by one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below.

6.  A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a notice of allowance (where there has been no prior final action):
 

- A check in the amount of \$180.00 is enclosed in payment of the fee.
- Charge the fee to Deposit Account No. 13-4500, Order No. \_\_\_\_\_. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

7.  A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes first, but before payment of the issue fee, and is accompanied by:
 

- a. one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below; and
- b. the fee due under 37 C.F.R. §1.17(p) which is paid as set forth in paragraph 11 below.

8.  A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:
 

- a.  37 C.F.R. §1.313(b)(3) or §1.313(c)(1), after the issue fee has been paid and information cited in this Information Disclosure Statement may render at least one claim unpatentable and is accompanied by the attached Petition To Withdraw Application From Issue and fee pursuant to 37 C.F.R. §1.17(h);
- b.  37 C.F.R. §1.313(c)(2) or §1.313(c)(3), after the issue fee has been paid and information cited in this Information Disclosure Statement is to be considered in a Request for Continued Examination (RCE) or a Continuation application upon abandonment of the instant application and is accompanied by the attached Petition To Withdraw Application From Issue and fee pursuant to 37 C.F.R. §1.17(h).

Docket No. 4586-4003  
DT01 c'd PCT/PTO 19 OCT 2004

c.  The fees due under 37 C.F.R. §§1.17(h) and 1.17(p) are paid as set forth in paragraph 11 below.

9.  I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

I hereby certify that no item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

10.  This document is accompanied by  a Search Report  Communication which was cited in a corresponding  PCT or  Foreign counterpart application

11.  A check in the amount of \$ \_\_\_\_\_ is enclosed in payment of the fees due under 37 C.F.R. §§1.17(h) and 1.17(p).

Charge the fees due under 37 C.F.R. §§1.17(h) and 1.17(p) to Deposit Account No. 13-4500, Order No. \_\_\_\_\_. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 4586-4003. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Dated: October 19, 2004

By:

Respectfully submitted,  
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## FORM PTO-1449

## INFORMATION DISCLOSURE CITATION

Attorney Docket:  
4586-4003Serial No.:  
TBA

10/511957

Applicant:  
Patrick GrossFiling Date:  
October 19, 2004Group Art Unit:  
TBA

## U.S. PATENT DOCUMENTS

Examiner Initial		Patent Number	Issue Date	Name	Class	Sub-Class	Filing Date
		4,920,318	4/1990	Misic et al.			
		4,801,885	1/1989	Meissner et al.			
		6,263,229	7/2001	Atalar et al.			
		5,964,705	10/1999	Truwit et al.			

## FOREIGN PATENT DOCUMENTS

Examiner Initial		Patent Number	Publication Date	Country	Class	Sub-Class	Translation
		EP 0315 382		EPO			<input type="checkbox"/> Yes <input type="checkbox"/> No
		GB 2331587		UK			<input type="checkbox"/> Yes <input type="checkbox"/> No
		WO 00/25673		PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No

## OTHER DOCUMENTS (Including Author, Title, Date, etc.)

	"An Expandable Intravenous RF Coil For Arterial Wall Imaging", A. J. Martin et al. , J. Magan. Reson. Imaging, 1998, Vol. 8 No. 1 pp 226-234
	"Coils For Insertion Into The Human Body", Hurst et al., John Wiley & Sons, pp 1373-1378
	"Intravascular Magnetic Resonance Imaging Using a Loopless Catheter Antenna", Ocali et al., MRM 37:112-118, 1997
	"Endovascular Coils For Interventional MRI", Gregory C. Hurst, Interventional MRI, Mosby Inc., 1999, pp 50-54
	"Active Visualization – MR Tracking", C.L. Dumoulin, Interventional Magnetic Resonance Imaging, Springer-Verlag, 1998, pp65-75
	"Intravascular (Catheter) NMR Receiver Probe: Preliminary Design Analysis and Application to Canone Iliofemoral Imaging", Hurst et al., Magnetic Resonance In Medicine 24, 1992, pp 343-357
	"Electronically Tunable Surface-Coil-Type Resonator for L-Band EPR Spectroscopy", Hirata et al., Journal of Magnetic Resonance 142, pp 159-167, 2000
	"A Disposable Prostate Probe and Interface system For High Field", George J. Misic et al., Book of abstract, Society of Magnetic Resonance in Medicine, 8 <sup>th</sup> Annual Meeting 1989
	"Determination of Appropriate RF Blocking Impedance For MRI Surface Coil and Arrays", Kocharian et al., Magnetic Resonance materials in Physics Biology and Medicine 10 pp80-83, 2000

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609.  
 Draw line through citation if not in conformance and not considered.  
 Include copy of this form with next communication to Applicant.

<b>FORM PTO-1449</b> <b>INFORMATION DISCLOSURE CITATION</b>		Attorney Docket: 4586-4003	Serial No.: TBA	
		Applicant: Patrick Gross		
		Filing Date: October 19, 2004	Group Art Unit: TBA	

**U.S. PATENT DOCUMENTS**

Examiner Initial		Patent Number	Issue Date	Name	Class	Sub-Class	Filing Date
		5,144,244	9/1992	Kess			
		4,633,181	12/1986	Murphy-Boesch et al.			

**FOREIGN PATENT DOCUMENTS**

Examiner Initial		Patent Number	Publication Date	Country	Class	Sub-Class	Translation
							<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No
							<input type="checkbox"/> Yes <input type="checkbox"/> No

**OTHER DOCUMENTS (Including Author, Title, Date, etc.)**

		“Improvements in Electronic Decoupling of Transmitter and Receiver Coils”, Picard et al., Journal of Magnetic Resonance, series B, 1995, pp110-115

Examiner	Date Considered
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	